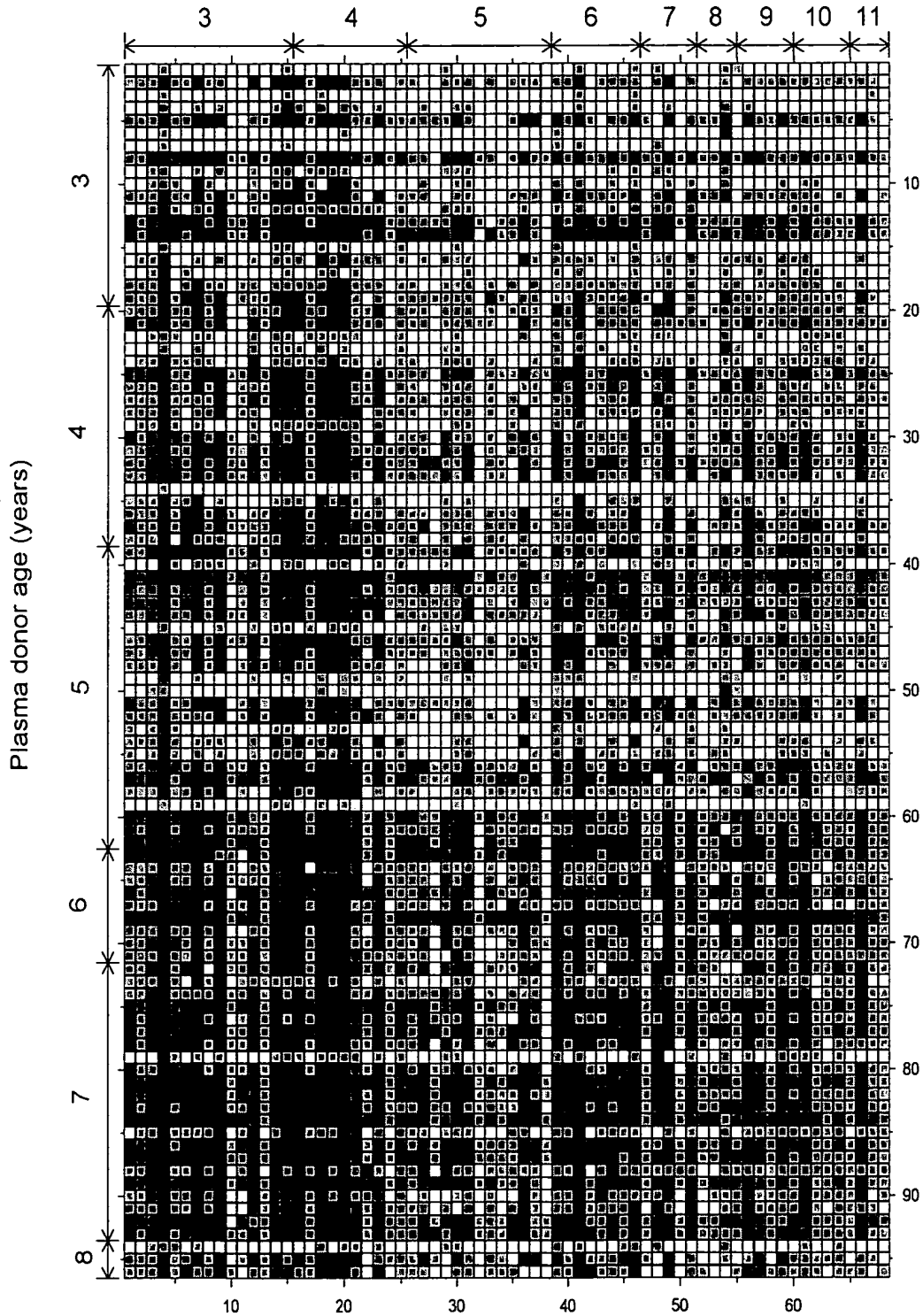


Parasite donor age (years)



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Fig. 1

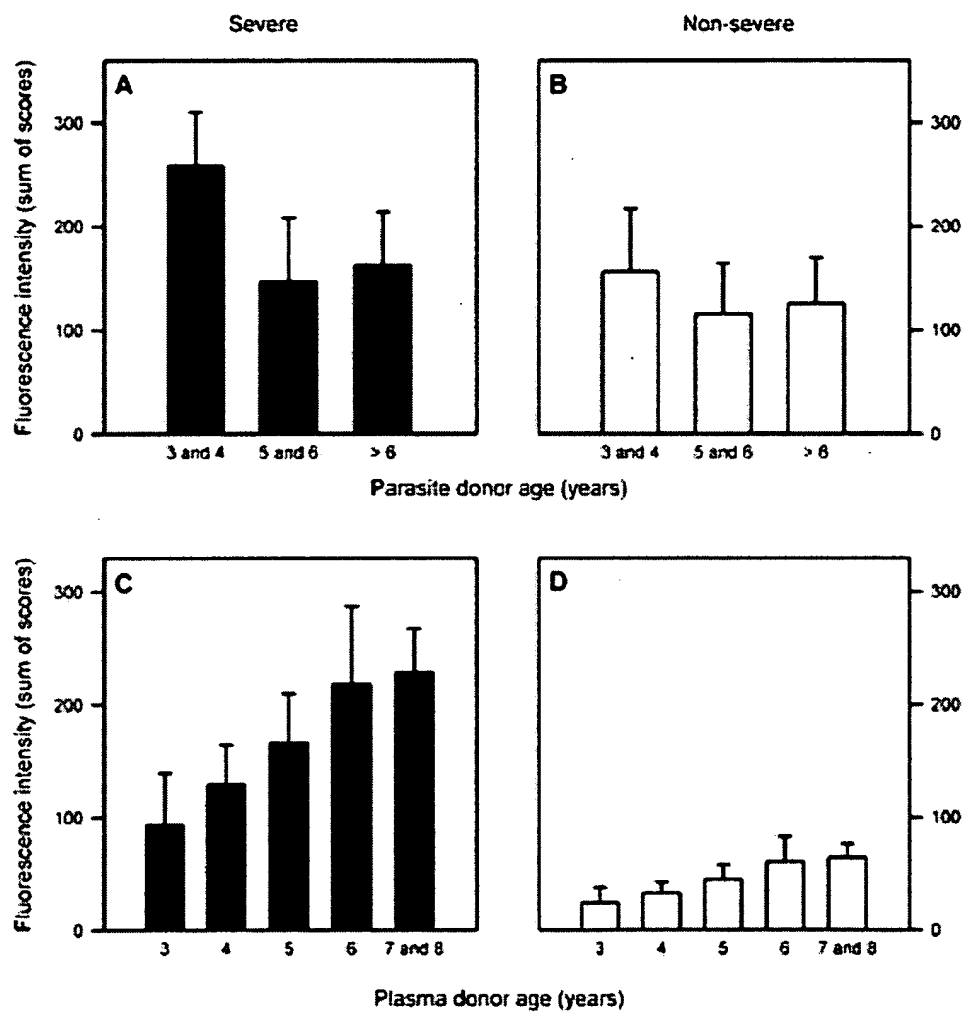


Fig. 2

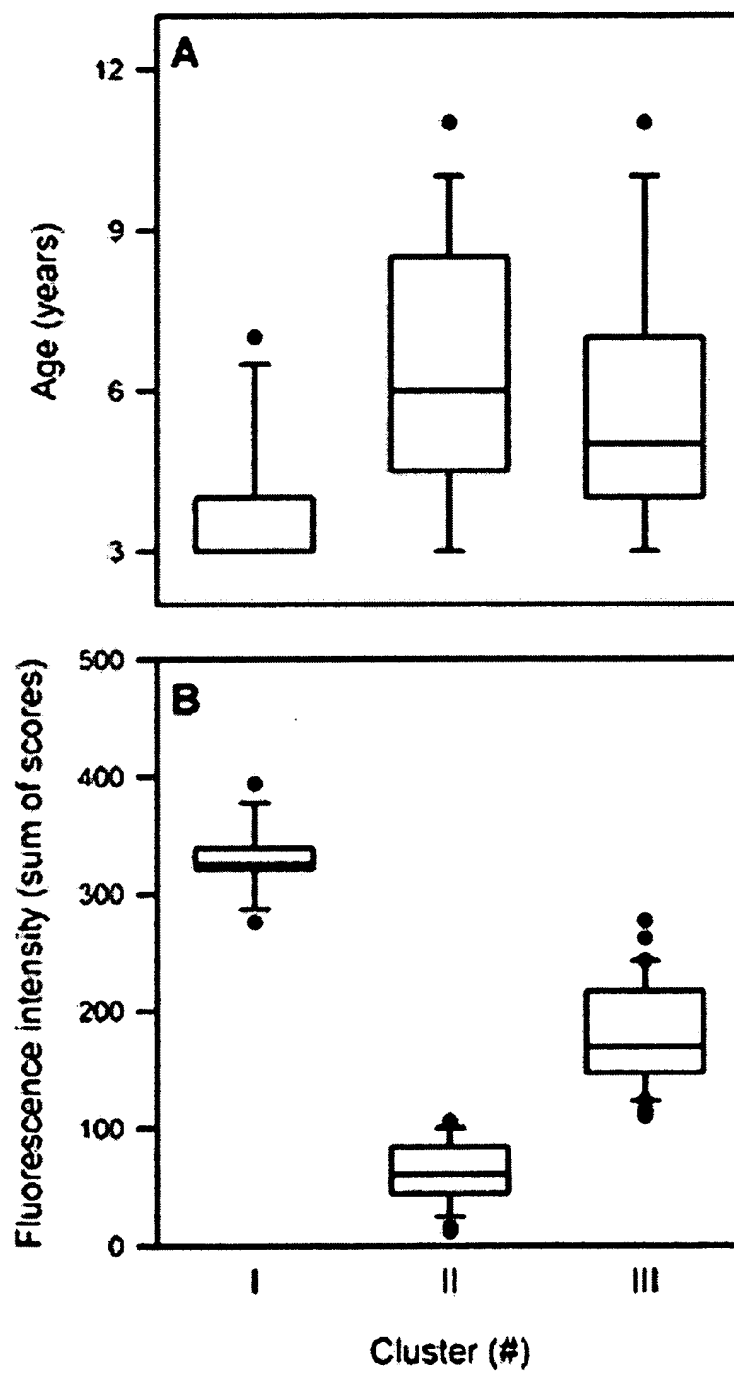


Fig. 3

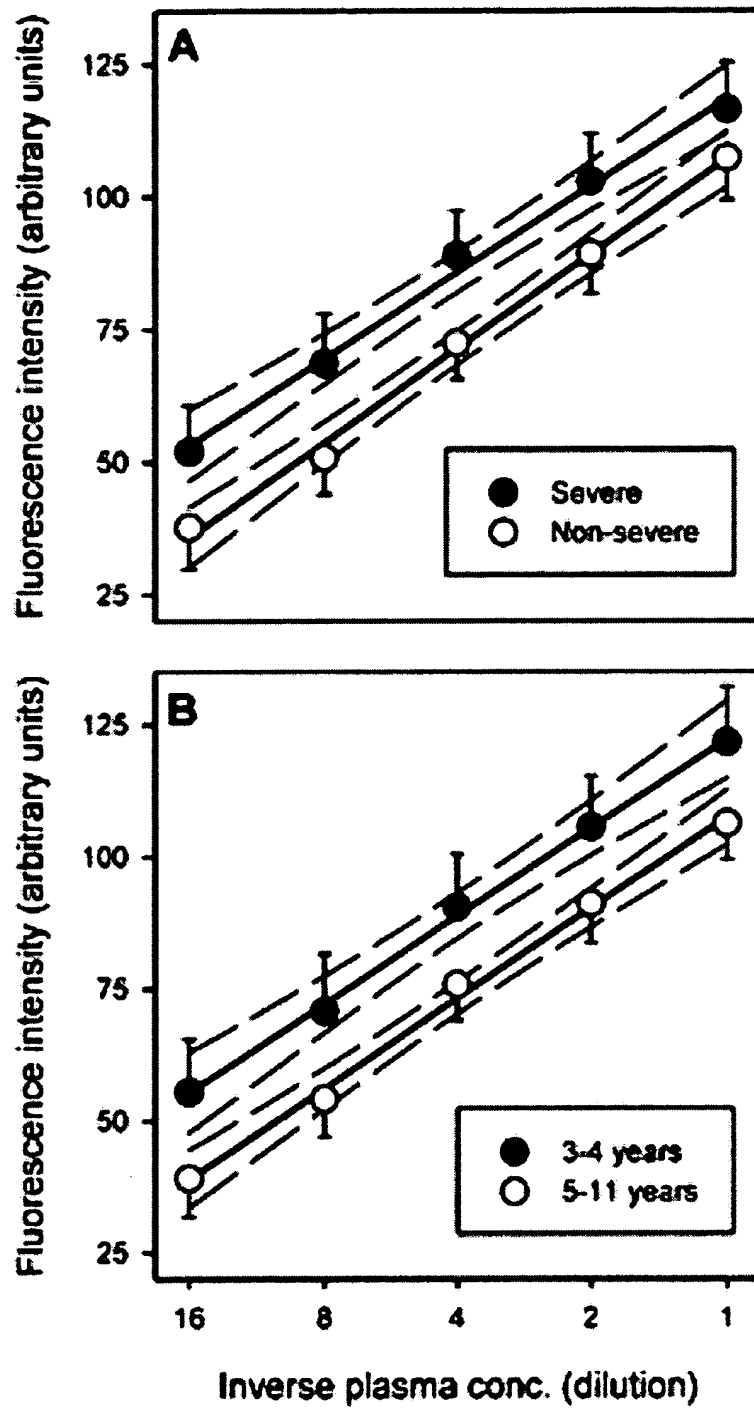


Fig. 4

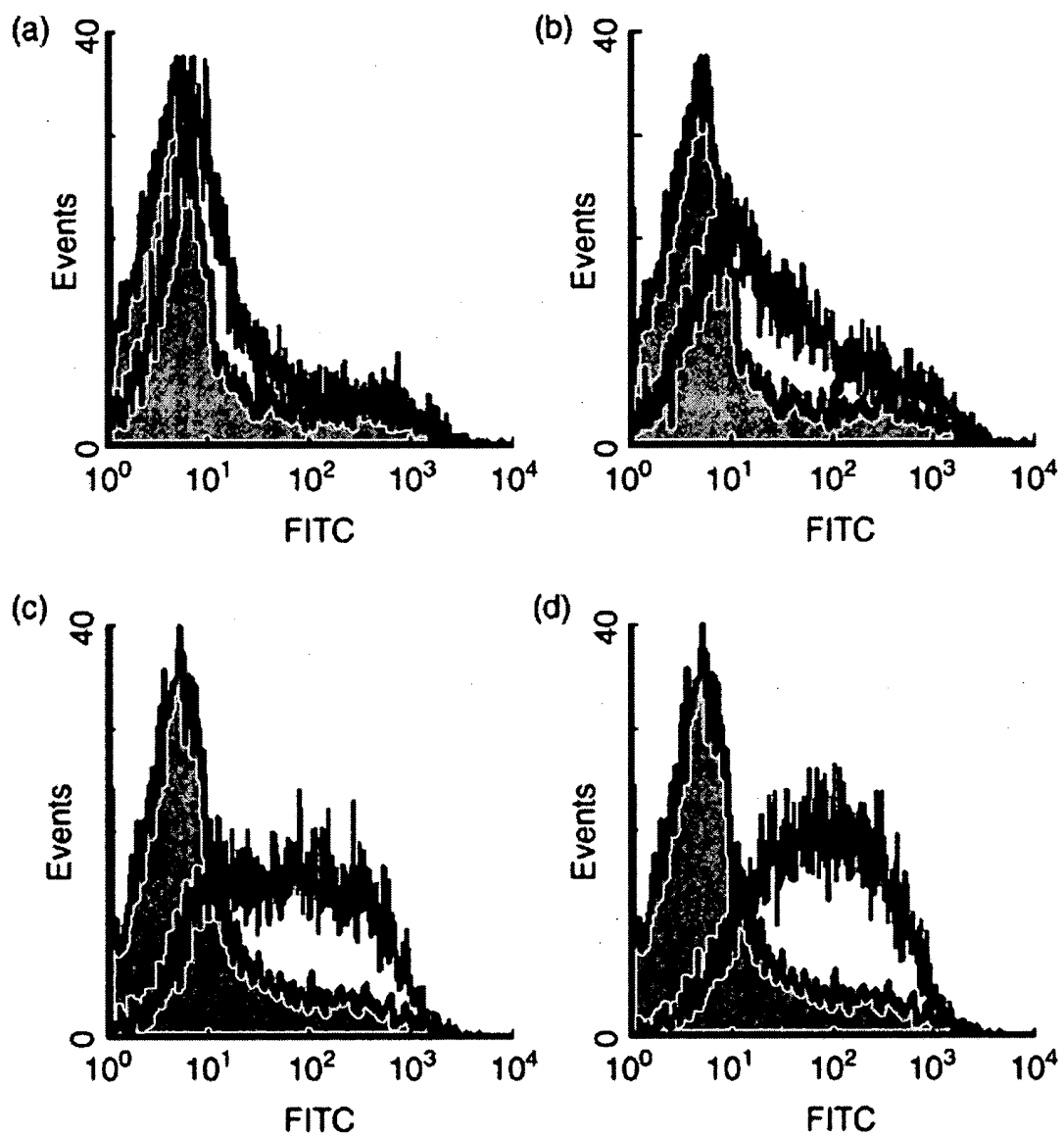


Fig. 5

6/20

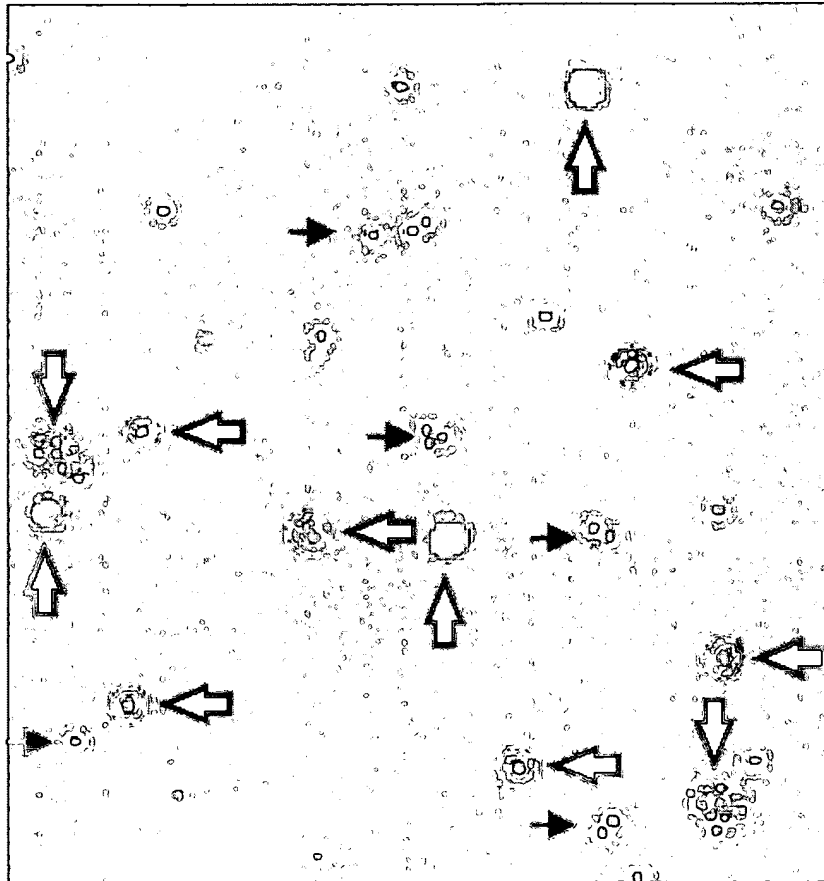


Fig. 6 BEST AVAILABLE COPY

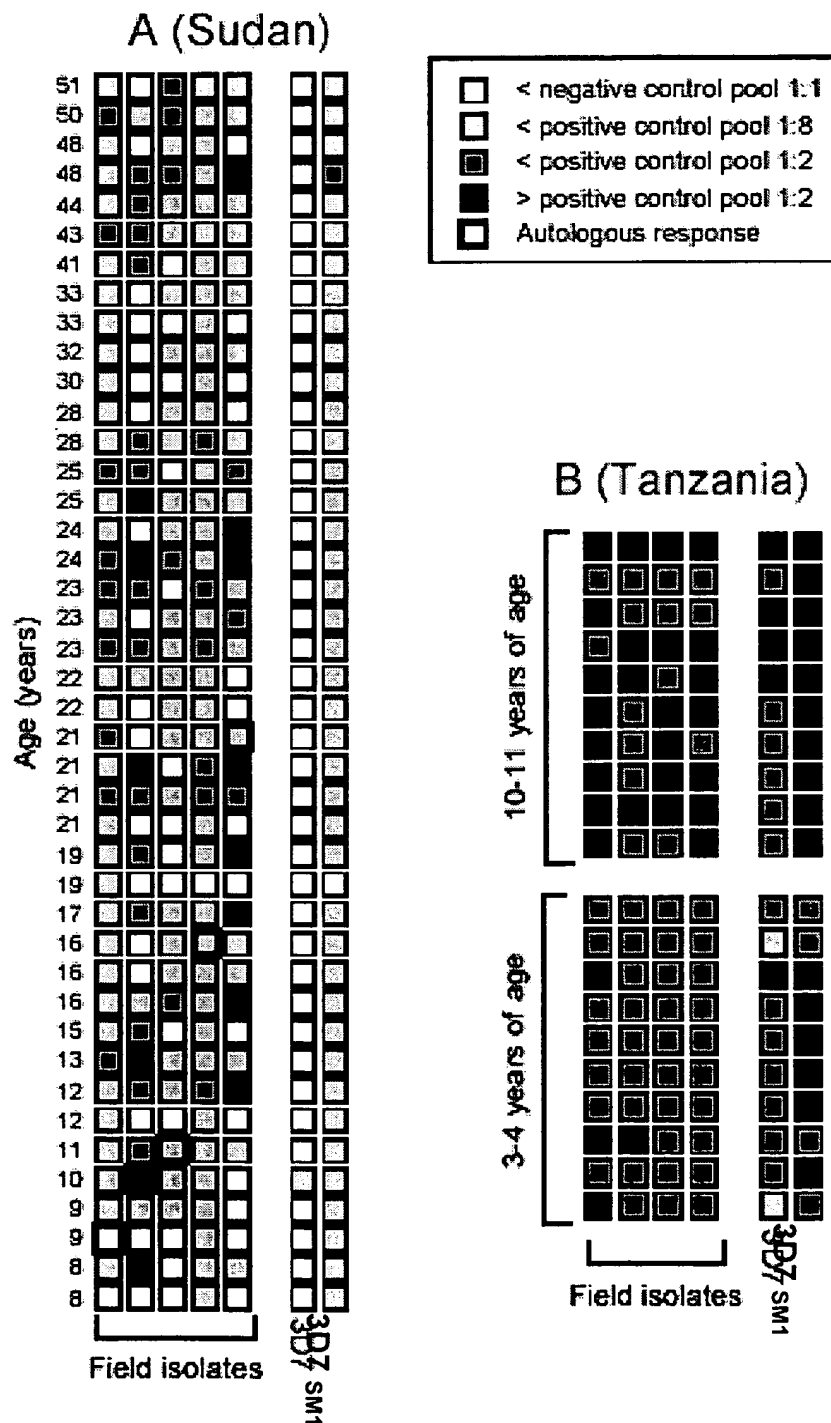


Fig. 7

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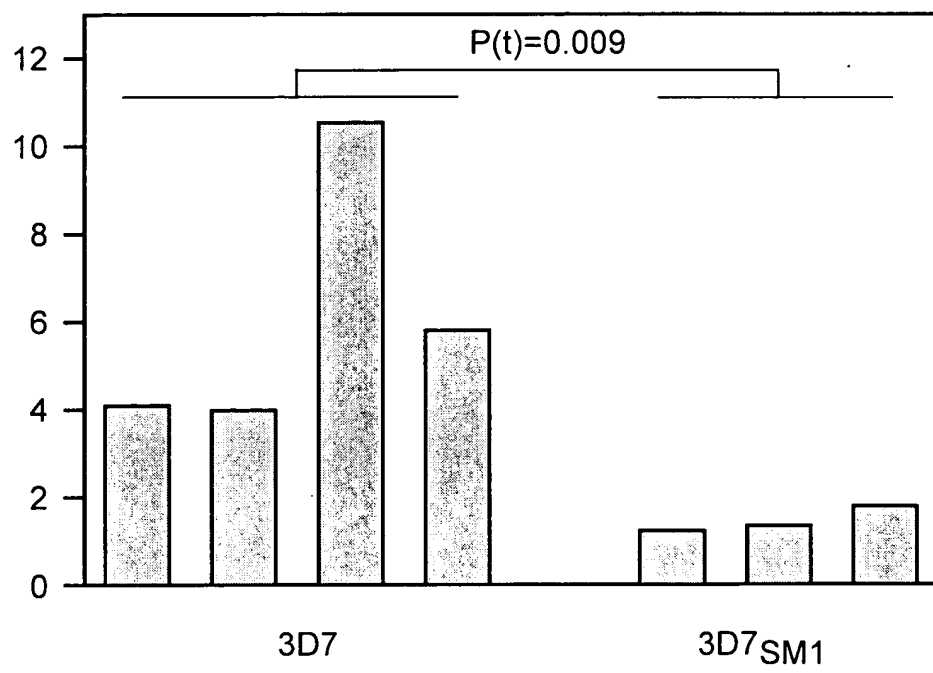


Fig. 8



Fig. 9

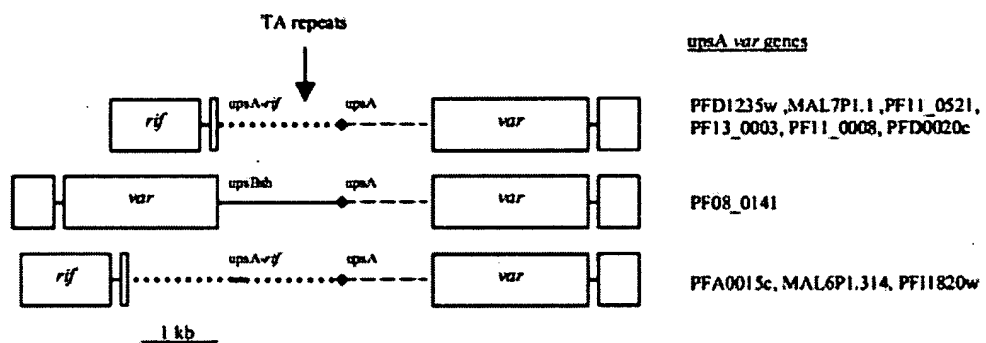


Fig. 10

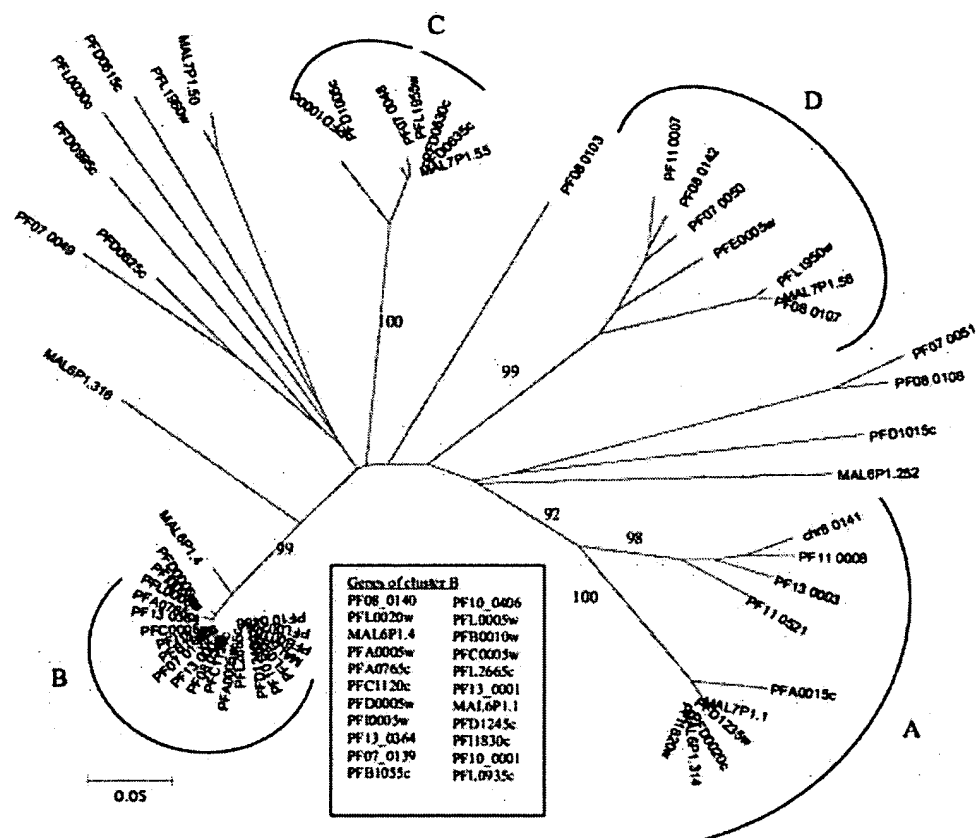


Fig. 11

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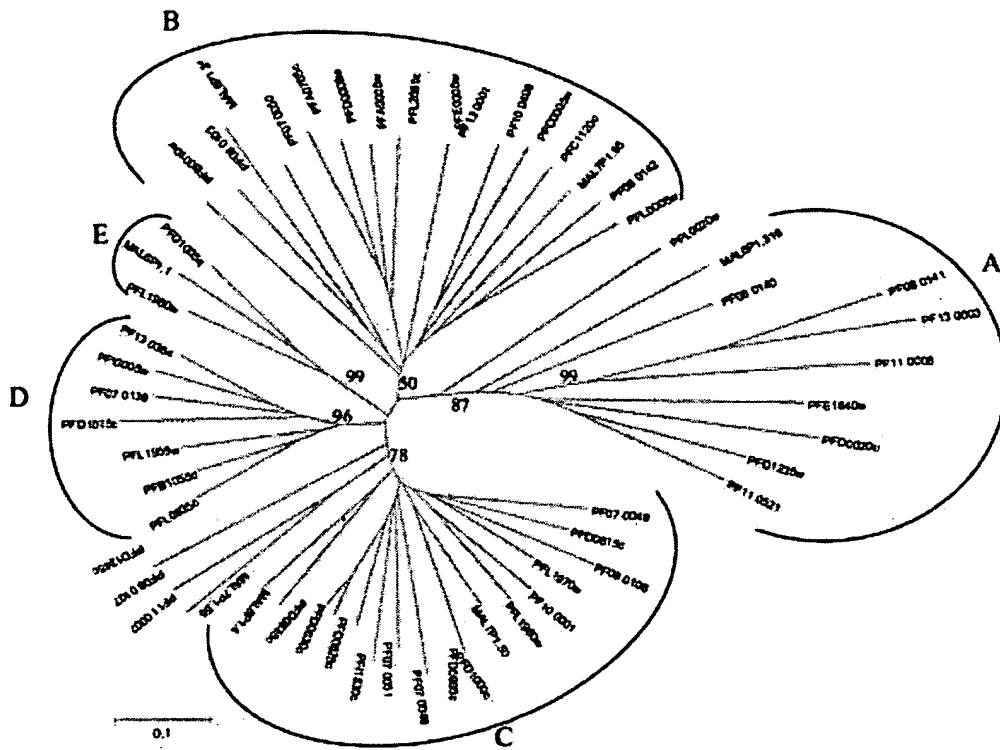


Fig. 12

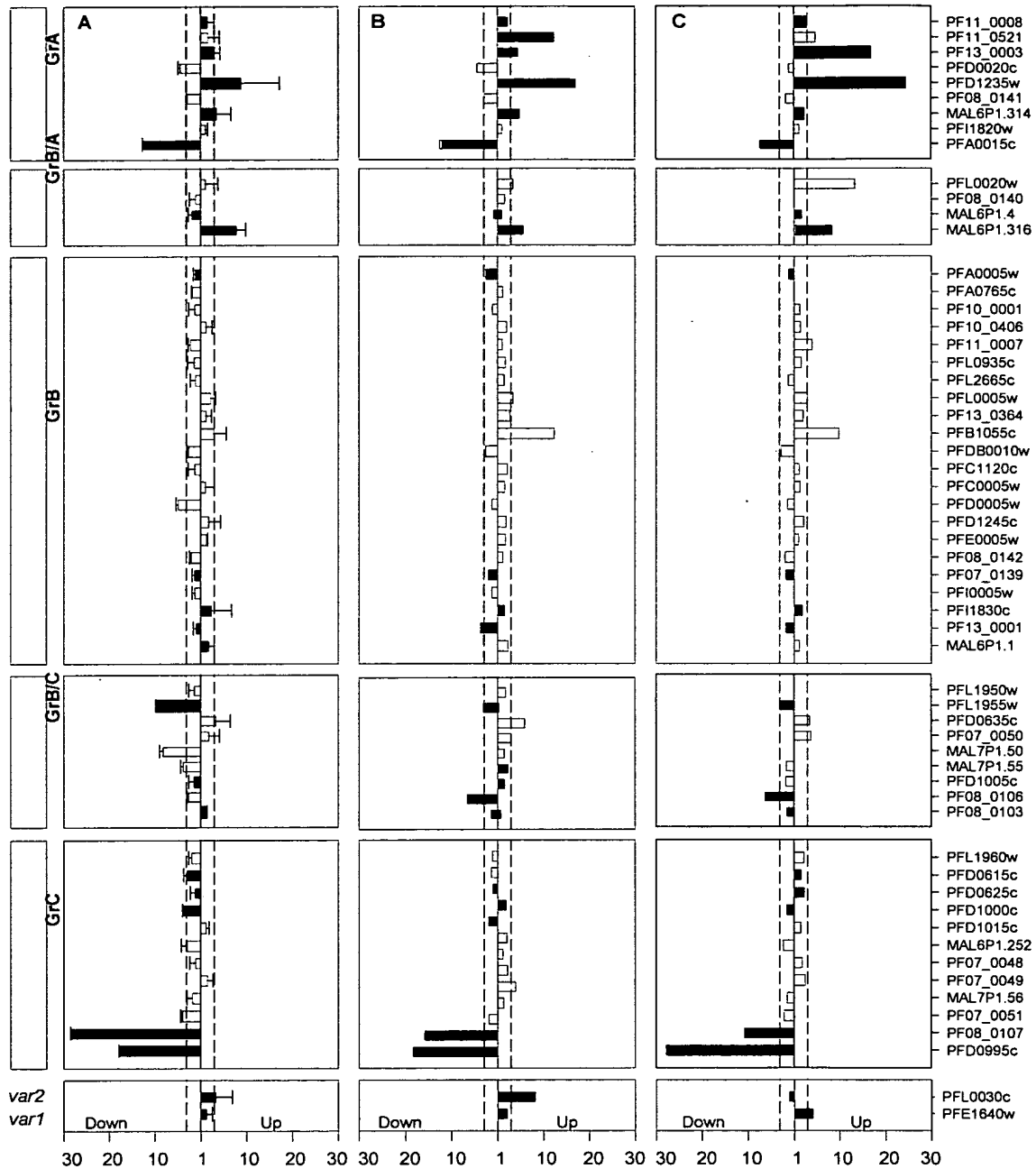


Fig. 13

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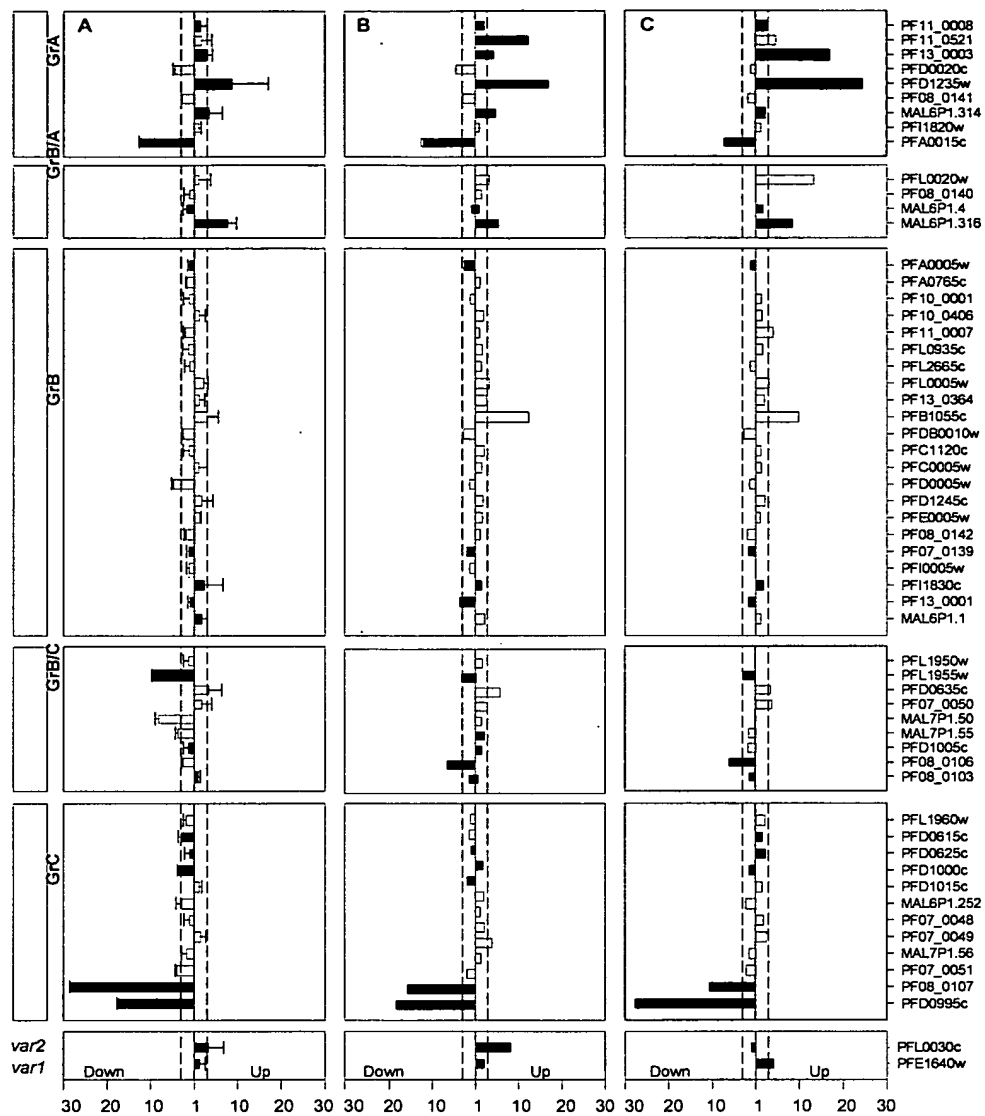


Fig. 14

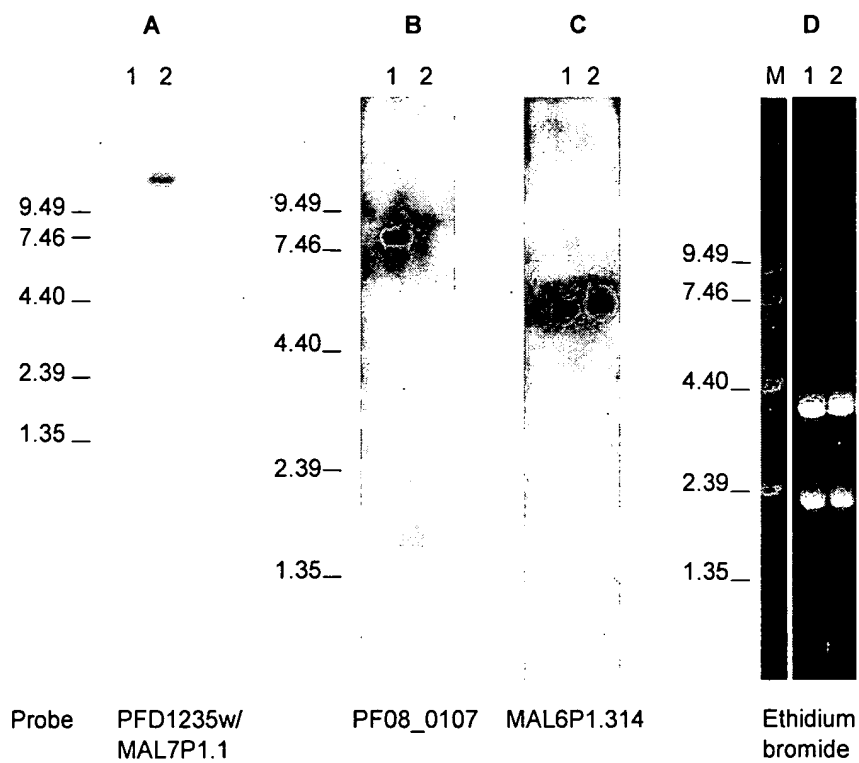


Fig. 15

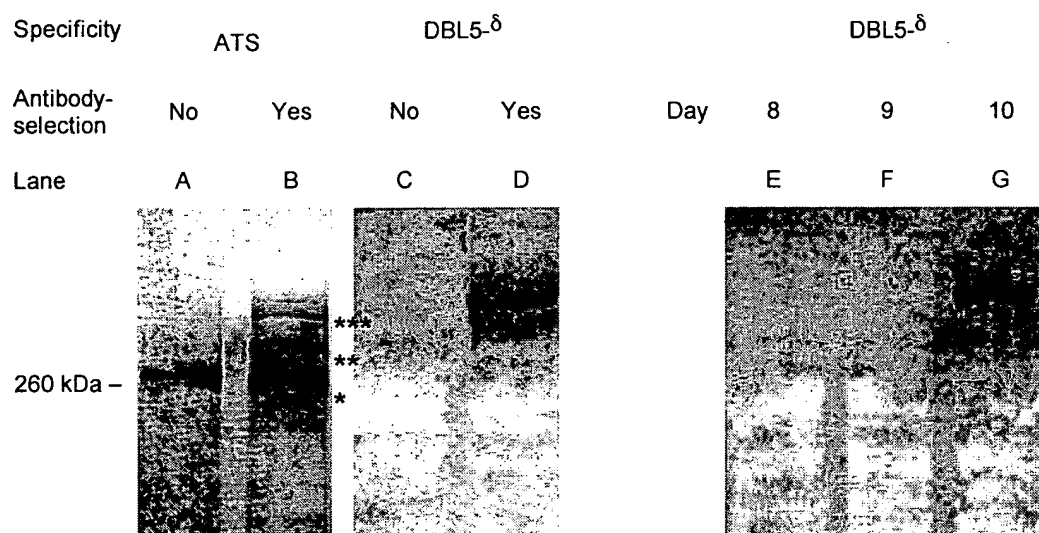


Fig. 16



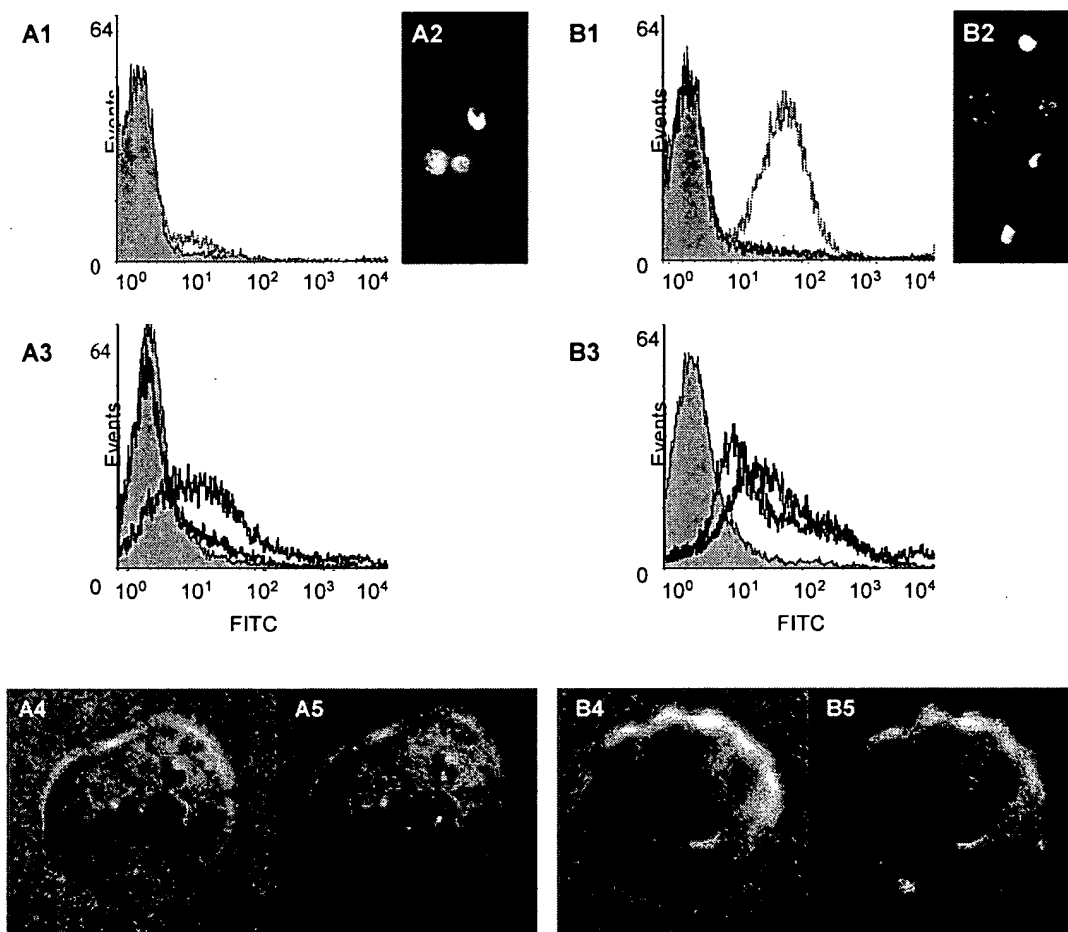


Fig. 17

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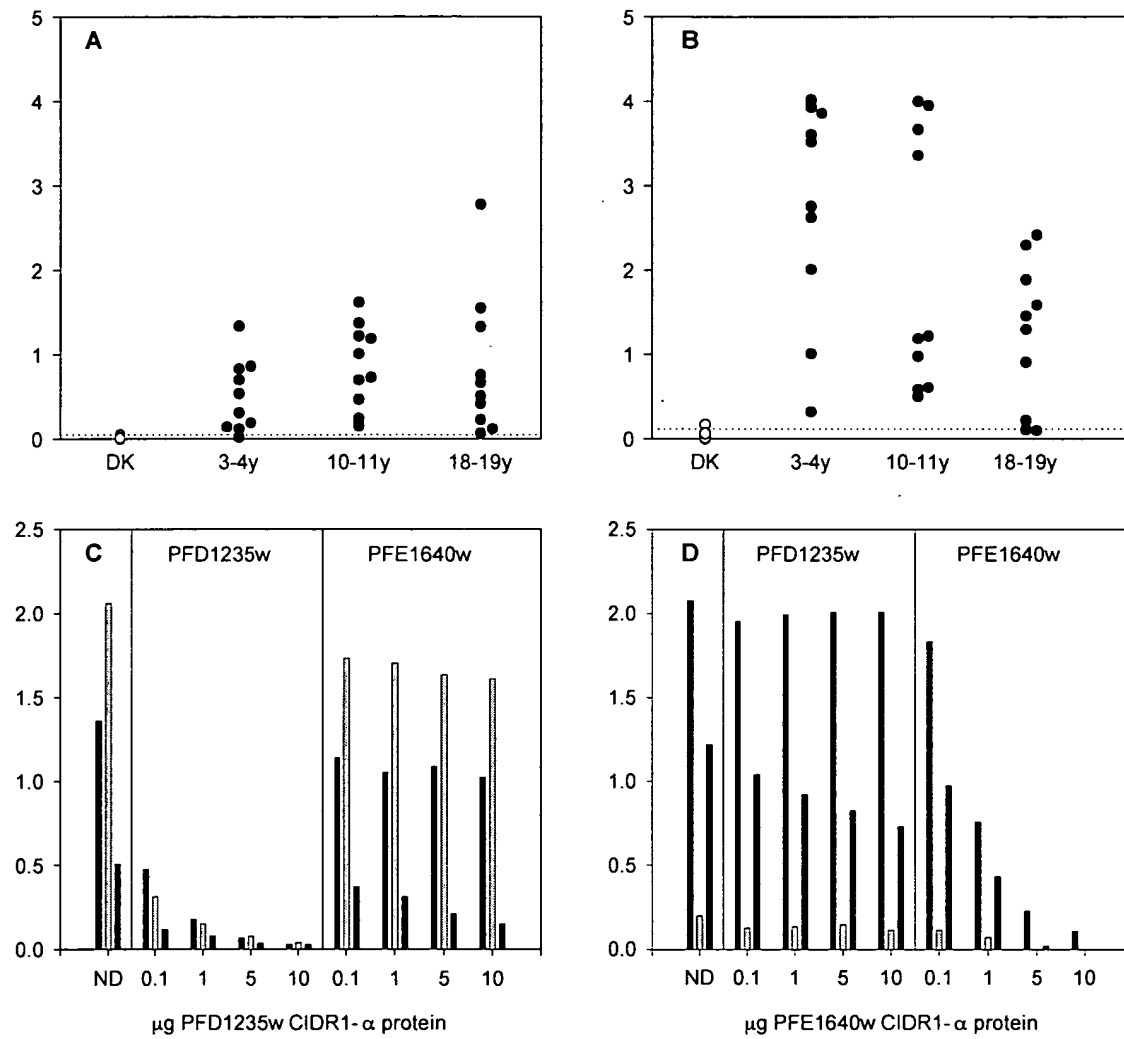


Fig. 18

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*      20      *      40      *      60      *      80
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BM048/1-76 : VVHRRNAEDRNPCLFSSERFSNEGEAECCGSDRI RDNGERSAGGACAPYRRRIICDYNLHHINENNIRNTHDLLGNLVMHAR : 81
PFD1235w/1 : VVHRRNAEDRNPCLFSSERFSNEGEAECCGSDRI RDNGERSAGGACAPYRRRIICDYNLHHINENNIRNTHDLLGNLVMHAR : 79
VVHRRNAEDRNPCLFSSERFSNEGEAECCGSDRI RDNGERSAGGACAPYRRRIICDYNLHHINENNIRNTHDLLGNLVMHAR4
*      100      *      120      *      140      *      160
BM021/1-76 : SEGESIVKSHEYTGYGIYKSGHCTSLARSFADIGDIIRGKDLYLGDNGKDRLENKLEIFKNIYDEVSTATRGKKPALQA : 162
BM048/1-76 : SEGESIVKSHEYTGYGIYKSGHCTSLARSFADIGDIIRGKDLYLGDNGKDRLENKLEIFKNIYDEVSTATRGKKPALQA : 162
PFD1235w/1 : SEGESIVKSHEYTGYGIYKSGICTSLARSFADIGDIIRGKDLYLGDNGKDRLENKLEIFKNIYDEVSTATRGKKPALQA : 157
SEGESIVKSHEYTGYGIYKSG6CTSLARSFADIGDIIRGKDLYLGDNGK4LENKLEIFKNIYDEVSTATRGKKPALQA
*      180      *      200      *      220      *      240
BM021/1-76 : RYQHDAP-DYYQLREDWWTANRHTVWKALTCAPRDAQYFIKSSVRDQTFSSNDYCGHGEHEVLNLDYVPOFLRWFEWSE : 242
BM048/1-76 : RYQHDAP-DYYQLREDWWTANRHTVWKALTCAPRDAQYFIKSSVRDQTFSSNDYCGHGEHEVLNLDYVPOFLRWFEWSE : 242
PFD1235w/1 : RYQHDAP-DYYQLREDWWTANRHTVWKALTCAPRDAQYFIKSSVRDQTFSSNDYCGHGEHEVLNLDYVPOFLRWFEWSE : 238
RYQHDAP-DYYQLREDWWTANRHTVWKALTCAPRDAQYFIKSSVRDQTFSSNDYCGHGEHEVLNLDYVPOFLRWFEWSE
*      260      *      280      *      300      *      320
BM021/1-76 : EFCRIKKIKLVKADACRDDTKALYCGRNGYDCTKTNRN-ENLPRGSKCTNCWAKCHLYESWLNQOQEFKKQKKEKEI : 322
BM048/1-76 : EFCRIKKIKLVKADACRDDTKALYCGRNGYDCTKTNRN-ENLPRGSKCTNCWAKCHLYESWLNQOQEFKKQKKEKEI : 322
PFD1235w/1 : EFCRIKKIKLVKADACRDDTKALYCGRNGYDCTKTNRN-ENLPRGSKCTNCWAKCHLYESWLNQOQEFKKQKKEKEI : 319
EFCRIKKIKLVKADACRDDTKALYCGRNGYDCTKTNRN-ENLPRGSKCTNCWAKCHLYESWLNQOQEFKKQKKEKEI
*      340      *      360      *      380      *      400
BM021/1-76 : LRYKSNEKISGSNNINRYEDFYKELEK-CANNDHFLKLLNEGKYCNKKEKIE-BENIDFTNIGEGKTFYRSRYCEVCPPF : 401
BM048/1-76 : LRYKSNEKISGSNNINRYEDFYKELEK-CANNDHFLKLLNEGKYCNKKEKIE-BENIDFTNIGEGKTFYRSRYCEVCPPF : 401
PFD1235w/1 : LRYKSNEKISGSNNINRYEDFYKELEK-CANNDHFLKLLNEGKYCNKKEKIE-BENIDFTNIGEGKTFYRSRYCEVCPPF : 398
LRYKSNEKISGSNNINRYEDFYKELEK-CANNDHFLKLLNEGKYCNKKEKIE-BENIDFTNIGEGKTFYRSRYCEVCPPF
*      420      *      440      *      460      *      480
BM021/1-76 : CGVECRGNTCTPPKKEYPNCENNEAYIIPKDATPIDI SVLYTGDEQGDITKKLSEFCSENENRENGENYOIWOCCYYKNSDIN : 482
BM048/1-76 : CGVECRGNTCTPPKKEYPNCENNEAYIIPKDATPIDI SVLYTGDEQGDITKKLSEFCSENENRENGENYOIWOCCYYKNSDIN : 482
PFD1235w/1 : CGVECRGNTCTPPKKEYPNCENNEAYIIPKDATPIDI SVLYTGDEQGDITKKLSEFCSENENRENGENYOIWOCCYYKNSDIN : 478
CGV2CrGNTCTPPKKEYPNCENNEAYIIPKDATPIDI SVLYTGDEQGDITKKLSEFCSENENRENGENYOIWOCCYYKNSDIN
*      500      *      520      *      540      *      560
BM021/1-76 : KCKHTPSSHVKPKHGVIHSFFAFFDLWVKNLIDITINWKNELTNCINNTNVTDCCKNDCTNCKCFENWAKTKENEWKVKVT : 563
BM048/1-76 : KCKHTPSSHVKPKHGVIHSFFAFFDLWVKNLIDITINWKNELTNCINNTNVTDCCKNDCTNCKCFENWAKTKENEWKVKVT : 563
PFD1235w/1 : KCKHTPSSHVKPKHGVIHSFFAFFDLWVKNLIDITINWKNELTNCINNTNVTDCCKNDCTNCKCFENWAKTKENEWKVKVT : 559
KCKHTPSSHVKPKHGVIHSFFAFFDLWVKNLIDITINWKNELTNCINNTNVTDCCKNDCTNCKCFENWAKTKENEWKVKVT
*      580      *      600      *      620      *      640
BM021/1-76 : IYKNENGNTNNYYKKLMDLFGYFFHVMKEVHKEAKWKLHLENLKEIDSSNLKNGTKDSEGAIKVLFDLHLDIAERCIDN : 644
BM048/1-76 : IYKNENGNTNNYYKKLMDLFGYFFHVMKEVHKEAKWKLHLENLKEIDSSNLKNGTKDSEGAIKVLFDLHLDIAERCIDN : 644
PFD1235w/1 : IYKNENGNTNNYYKKLMDLFGYFFHVMKEVHKEAKWKLHLENLKEIDSSNLKNGTKDSEGAIKVLFDLHLDIAERCIDN : 640
IYKNENGNTNNYYKKLMDLFGYFFHVMKEVHKEAKWKLHLENLKEIDSSNLKNGTKDSEGAIKVLFDLHLDIAERCIDN
*      660      *      680      *      700      *      720
BM021/1-76 : NSNECDVSKDSKTNPCSETRGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN : 725
BM048/1-76 : NSNECDVSKDSKTNPCSETRGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN : 725
PFD1235w/1 : NSNECDVSKDSKTNPCSETRGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN : 721
NSNECDVSKDSKTNPCSETRGSKPTKSVKQLAEHMQQAOKLLGTRGGESNLKGDATRGTYNLGGOGNTLNGDICKITKN
*      740      *      760
BM021/1-76 : HTNDSRPNGEPCGKDKVKHGFRLKIGTPWTNI VQKKKK : 764
BM048/1-76 : HTNDSRPNGEPCGKDKVKHGFRLKIGTPWTNI VQKKKK : 764
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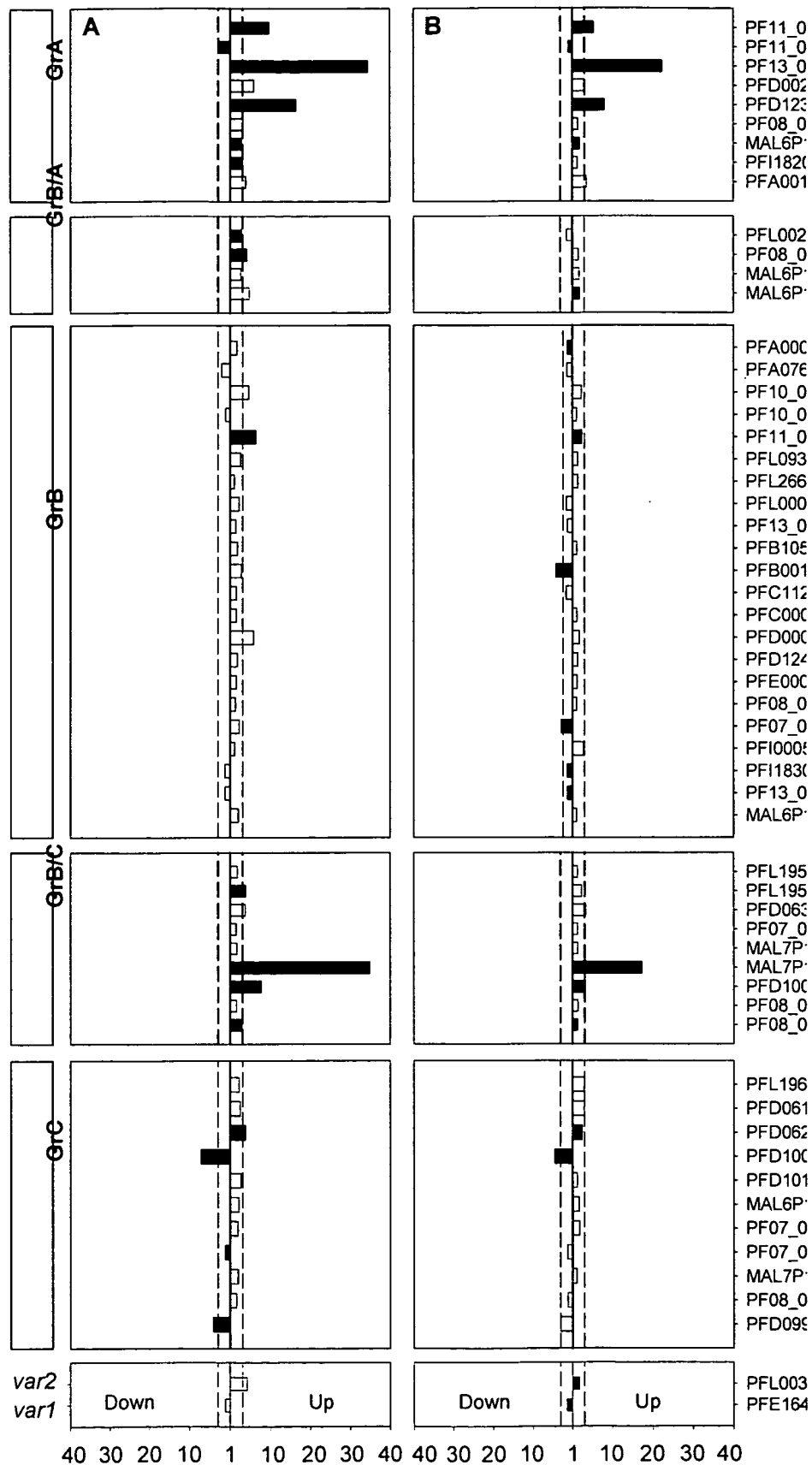


Fig. 20